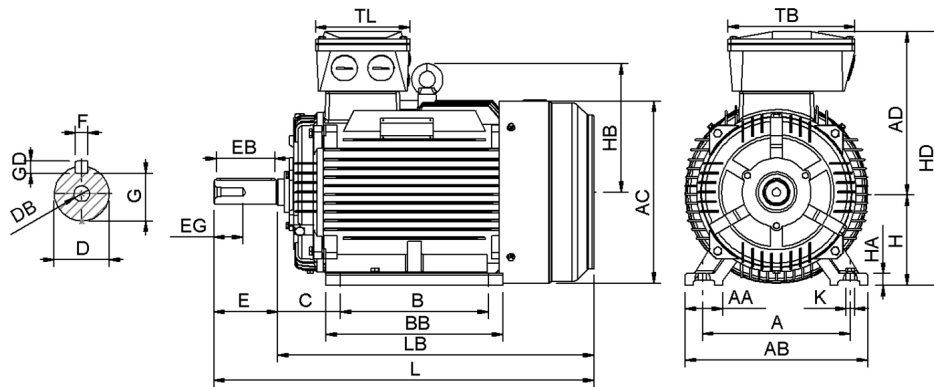


# Data Sheet

Itemnumber..... 5563550102



|          |          |          |          |         |         |           |           |          |
|----------|----------|----------|----------|---------|---------|-----------|-----------|----------|
| A = 610  | AC = 699 | BB = 750 | DB = M24 | EG = 56 | GD = 14 | HB = 489  | L = 1537  | TL = 330 |
| AA = 116 | AD = 664 | C = 254  | E = 170  | F = 25  | H = 355 | HD = 1019 | LB = 1367 |          |
| AB = 726 | B = 560  | D = 95   | EB = 160 | G = 86  | HA = 52 | K = 28    | TB = 460  |          |

## Version

Type..... HMC3 355M1-6  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE3  
Pole..... 6  
Power at 50 Hz (kW)..... 160  
Hz..... 50  
Voltage..... 400VD/690VY  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 160  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 355  
Mounting..... B3  
Rain cap..... No  
Protection class..... IP55  
Cooling method..... IC411/TEFC  
External grounding..... Yes  
Drain hole..... Yes  
Frame material..... Cast Iron  
Material approval..... None  
Shaft..... IEC standard  
Key..... Closed key  
Balancing..... Half key balancing  
Vibration class..... Grade-A  
Weight (kg)..... 1.565

## Environment condition

Ambient temp. min. (°C)..... -20  
Ambient temp. max. (°C)..... 40  
Altitude (mtr up to)..... 1000

## Bearing

DE Bearing..... 6322/C3  
NDE Bearing..... 6322/C3  
Fixed bearing..... DE

## Terminal box

Tbox position..... Top  
Cable entry direction..... Right (from DE)  
Cable entry  
Main..... 2 x M72x2,0  
Metal blindcaps  
Accessory..... 2 x M20x1,5  
Metal blindcaps  
Terminal board thread..... 6-M16

## Motor protection

Thermal protection main..... PTC 3x 155 dgr  
Thermal protection second.. None  
Space heater..... None  
Temperature detector..... No  
SPM..... No  
IR wire..... No  
Tropical insulation..... No

## Explosion protection

According to..... None  
Type of protection..... None

## General

Direction of rotation..... CW  
Painting..... RAL 9005  
Nameplate..... Multivoltage  
Special packing..... No  
Special requirements..... No

## Test values

Rotor inertia (kgm²)..... 9,93  
Noise level (dB(A))..... 80  
No load current (A)..... 72,0  
Winding resist. (ohm)..... 0,025  
Starting time (sec.)..... 0,42  
Temp. rise winding (K)..... 68  
Temp. rise surface (K)..... 58

|                           |                  |                  |                  |                  |
|---------------------------|------------------|------------------|------------------|------------------|
| Rated power (kW)          | 160              | 156              | 192              | 186              |
| Frequency (Hz)            | 50               | 50               | 60               | 60               |
| Voltage (V)               | 400 690          | 380 660          | 480 830          | 440              |
| Connection                | D Y              | D Y              | D Y              | D                |
| Full load current (A)     | 275 158          | 280 162          | 275 158          | 280              |
| Speed (rpm)               | 990              | 990              | 1190             | 1190             |
| Power factor cos(phi)     | 0,89             | 0,90             | 0,89             | 0,90             |
| Efficiency, 100/75/50 (%) | 95,6/ 95,9 /94,7 | 95,6/ 95,9 /94,7 | 95,6/ 95,9 /94,7 | 95,3/ 95,6 /94,3 |
| Ist/In                    | 5,50             | 4,85             | 5,50             | 5,10             |
| Full load torque (Nm)     | 1.540            | 1.500            | 1.540            | 1.500            |
| Tst/Tn                    | 2,00             | 1,86             | 2,00             | 1,74             |
| Tmax/Tn                   | 2,20             | 2,04             | 2,20             | 1,90             |
| Duty                      | S1               | S1               | S1               | S1               |
| Ambient temp. (°C)        | 40               | 45               | 40               | 45               |